

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A valve assembly comprising:

a replacement valve for placement within a native valve sinus cavity, the replacement valve
having a scalloped inflow annulus, an outflow annulus, and a plurality of leaflets between said
scalloped inflow annulus and said outflow annulus; and

a collapsible and expandable anchoring structure positioned outside the replacement valve;

said anchoring structure being dimensioned to extend longitudinally from an attachment
location near the inflow annulus of a native valve sinus to an attachment location within a native
sinus cavity; and

said anchoring structure further comprising a flared inflow rim, a flared outflow rim,
positioned below upper edges of the replacement valve leaflets and flared away from the
replacement valve leaflets in order to prevent contact between the replacement valve leaflets and the
anchoring structure, and ~~a plurality of~~ not more than three vertical elements extending from the
inflow rim to the outflow rim.
2. (Original) The valve assembly of claim 1, wherein said valve is positioned internally
to said anchoring structure.
3. (Previously presented) The valve assembly of claim 2, wherein said valve has three
leaflets.
4. (Cancelled)

5. (Original) The valve assembly of claim 1, wherein said flared inflow rim comprises one or more rings configured in an undulating pattern.
6. (Original) The valve assembly of claim 1, wherein said flared outflow rim comprises diamond and hexagon shaped structures.
7. (Currently amended) The valve assembly of claim 1, wherein said vertical elements are configured to coincide longitudinally with the native sinus commissural posts.